

Title (en)
ELECTROLYTIC SOLUTION FOR LITHIUM CELL AND METHOD FOR MANUFACTURING SAME, AND LITHIUM CELL PROVIDED WITH SAID ELECTROLYTIC SOLUTION FOR LITHIUM CELL

Title (de)
ELEKTROLYTLÖSUNG FÜR EINE LITHIUMZELLE UND VERFAHREN ZU IHRER HERSTELLUNG SOWIE LITHIUMZELLE MIT DIESER ELEKTROLYTLÖSUNG FÜR EINE LITHIUMZELLE

Title (fr)
SOLUTION ÉLECTROLYTIQUE POUR PILE AU LITHIUM ET SON PROCÉDÉ DE FABRICATION, ET PILE AU LITHIUM COMPRENANT LADITE SOLUTION ÉLECTROLYTIQUE POUR PILE AU LITHIUM

Publication
EP 2897210 A1 20150722 (EN)

Application
EP 13837026 A 20130909

Priority
• JP 2012203231 A 20120914
• JP 2013074248 W 20130909

Abstract (en)
The present invention is to provide: a liquid electrolyte for batteries, which has excellent stability to lithium metals; a method for producing the liquid electrolyte; and a lithium battery comprising the liquid electrolyte. Disclosed is a liquid electrolyte for lithium batteries, wherein the liquid electrolyte comprises a mesoionic compound represented by the following general formula (1): wherein R 1 is an aliphatic hydrocarbon group having 1 to 3 carbon atoms, and R 2 is a group represented by any one of the following general formulae (2), (3) and (4): General Formula (2): $-C_1H_{21}-(OCH_2)_m-C_nH_{2n+1}$; General Formula (3): $-C_xH_{2x}-(CH_2OCH_2)_y-C_zH_{2z+1}$; and General Formula (4): $-C_pH_{2p}-(C_2H_4OCH_2)_q-C_rH_{2r+1}$.

IPC 8 full level
H01M 10/0568 (2010.01); **H01M 10/052** (2010.01); **H01M 12/08** (2006.01)

CPC (source: CN EP US)
H01M 10/052 (2013.01 - CN EP US); **H01M 10/0525** (2013.01 - US); **H01M 10/0567** (2013.01 - US); **H01M 10/0568** (2013.01 - CN EP US); **H01M 12/08** (2013.01 - CN EP US); **H01M 2220/30** (2013.01 - US); **H01M 2300/0025** (2013.01 - US); **Y02E 60/10** (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2897210 A1 20150722; **EP 2897210 A4 20151111**; **EP 2897210 B1 20161130**; CN 104620435 A 20150513; CN 104620435 B 20160427; JP 2014059987 A 20140403; JP 5718867 B2 20150513; US 2015236377 A1 20150820; US 9620817 B2 20170411; WO 2014042124 A1 20140320

DOCDB simple family (application)
EP 13837026 A 20130909; CN 201380047425 A 20130909; JP 2012203231 A 20120914; JP 2013074248 W 20130909; US 201314427872 A 20130909